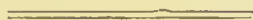


MEDICAL REPORT  
ON THE  
SANITARY CONDITION  
OF  
CARLISLE

*DURING THE YEAR 1894,*

BY

WILLIAM BROWN, F. R. C. S.,  
*MEDICAL OFFICER OF HEALTH.*



CARLISLE :  
CHAS. THURNAM AND SONS, STEAM PRINTERS, ENGLISH-ST.  
1895.



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1894. ...

CARLISLE URBAN SANITARY AUTHORITY.

*Annual Report of the Medical Officer of Health.*

TO THE CARLISLE URBAN SANITARY AUTHORITY.

Gentlemen,

I have the honour of submitting to you my Annual Report on the Health of Carlisle during the year 1894, with an account of the Sanitary Work performed.

STATISTICAL SUMMARY.

Area of District in Acres	...	...	2,029.
Estimated Population at Midsummer	...	...	40,500
Density of Population per acre	...	...	19.9
Inhabited Houses ... (1891 census)	...	...	7,624
Rateable Value of District	...	...	£169,000
Births	...	...	1,315
Birth-rate	...	...	32.4
Deaths	...	...	780
Death-rate...	...	...	19.2
Zymotic Deaths	...	...	44
Zymotic Death-rate	...	...	1.1
Infant Mortality	...	...	174
Ratio of Infant Deaths to Births per 1,000	...	...	133
Infectious Cases Notified	...	...	246
Infectious Cases Isolated at Crozier Lodge	...	...	
Fever Hospital...	...	...	21

REGISTRATION SUB-DISTRICTS.

St. Mary Sub-District—Population	...	24,622
St. Cuthbert do.	do.	15,878

VITAL STATISTICS.

During the year the births of 1,315 children have been registered. Of these 654 were boys and 661 girls. The total gives a rate of 32.4 per 1,000 of the estimated population. Last year the birth-rate was 34.5 of the estimated population.

## MORTAL STATISTICS.

During the year ending December 31st, 780 deaths were registered in the Carlisle Urban Sanitary District. Of these 396 were males and 384 females. The death-rate was equal to 19.2 per 1,000 of the population estimated to the middle of the year. Last year (1893) 868 deaths were registered, the death-rate being equal to 21.6 per 1,000 of the estimated population. The following table gives the deaths of persons not belonging to the Carlisle Urban District. Making allowance for such deaths a death-rate of 18.3 is obtained.

Where Died.	Deaths of persons not belonging to the Carlisle Urban Sanitary District.		
Cumberland Infirmary ...	...	...	29
Fusehill Workhouse ...	...	...	6
Fever Hospital, Crozier Lodge ...	...	...	2
Home for Incurables ...	...	...	2
Her Majesty's Prison ...	...	...	1
			<hr/> 40

Table shewing the death-rate of Carlisle from 1874 to 1894 inclusive :—

Year.	Deaths from all causes.		Deaths from Principal Zymotic Diseases.	
	No. Registered.	Rate per 1000 of population.	No. Registered.	Rate per 1000 of Population.
1874	1055	32.6	367	11.3
1875	934	29.2	201	6.3
1876	800	25.0	100	3.0
1877	750	23.0	55	1.7
1878	828	23.5	83	2.3
1879	818	23.5	76	2.0
1880	777	22.2	106	3.0
1881	717	20.0	67	1.8
1882	852	23.6	189	5.0
1883	779	21.0	67	1.8
1884	783	21.0	38	1.0
1885	769	20.3	66	1.7
1886	745	19.4	62	1.6
1887	772	19.9	75	1.9
1888	722	18.5	59	1.5
1889	723	18.1	69	1.7
1890	792	19.5	65	1.6
1891	789	20.1	63	1.6
1892	805	20.2	55	1.3
1893	868	21.6	145	3.6
1894	780	19.2	44	1.1

## DEATHS FROM THE EIGHT PRINCIPAL ZYMOTIC DISEASES.

The Returns shew 44 deaths from the principal Zymotic Diseases, representing a Zymotic death-rate of 1.1 per 1,000 of the estimated population. The number registered from each Zymotic Disease being as follows:—

Small Pox	...	...	...	—
Measles	...	...	...	20
Scarlet Fever	...	...	...	2
Diphtheria	...	...	...	4
Whooping Cough	...	...	...	12
Typhus Fever	...	...	...	—
Enteric Fever	...	...	...	2
Diarrhœa and Dysentery	...	...	...	4
				<hr/> 44 <hr/>

## INFANT MORTALITY.

The deaths of 174 infants under one year of age have been registered. The ratio of infant deaths to births is 133 per 1,000, as compared with

1893	...	...	...	178
1892	...	...	...	123
1891	...	...	...	137
1890	...	...	...	150
1889	...	...	...	142
1888	...	...	...	129
1887	...	...	...	141
1886	...	...	...	146
1885	...	...	...	164

## SCARLET FEVER.

77 cases of Scarlet Fever have been notified, as compared with 184 cases last year. The disease was most prevalent during the first two quarters of the year. As to the age prevalence 21 cases were in children of from 3 to 6, and 19 in children of from 6 to 9 years old. The mortality was 1.5 per cent. of the cases notified.

Table shewing the number of Cases of Scarlet Fever, during the year 1894 arranged as to age:—

Under 1 year	...	...	...	4
From 1 to 2 years	...	...	...	3
„ 2 „ 3 „	...	...	...	4
„ 3 „ 4 „	...	...	...	2
„ 4 „ 5 „	...	...	...	8

From 5 to 6 years	...	...	...	11
" 6 " 7 "	...	...	...	9
" 7 " 8 "	...	...	...	6
" 8 " 9 "	...	...	...	4
" 9 " 10 "	...	...	...	3
" 10 " 11 "	...	...	...	3
" 11 " 12 "	...	...	...	0
" 12 " 13 "	...	...	...	2
" 13 " 14 "	...	...	...	3
" 14 " 15 "	...	...	...	2
" 15 " 16 "	...	...	...	2
" 16 " 17 "	...	...	...	1
" 17 " 18 "	...	...	...	1
" 18 " 19 "	...	...	...	1
" 19 " 20 "	...	...	...	0
Over 20 years ..	...	...	...	5
Total				74

In three instances the ages of the patients were not ascertained, which, added to the 74 above referred to, gives a total number of 77, the number notified under the Act.

Number of Cases of Scarlet Fever reported each week, from 1st January to 31st December, 1894:—

From the 1st to the 3rd of January	...	0
Week ending 10th	"	2
" " 17th	"	1
" " 24th	"	7
" " 31st	"	2
" " 7th February	...	5
" " 14th "	...	5
" " 21st "	...	1
" " 28th "	...	2
" " 7th March	...	0
" " 14th "	...	0
" " 21st "	...	2
" " 28th "	...	2
" " 4th April	...	0
" " 11th "	...	1
" " 18th "	...	1
" " 25th "	...	0
" " 2nd May	...	0
" " 9th "	...	0
" " 16th "	...	1
" " 23rd "	...	1
" " 30th "	...	3

Week ending	6th June	...	...	2
"	" 13th "	...	...	2
"	" 20th "	...	...	1
"	" 27th "	...	...	5
"	" 4th July	...	...	0
"	" 11th "	...	...	0
"	" 18th "	...	...	3
"	" 25th "	...	...	0
"	" 1st August	...	...	2
"	" 8th "	...	...	0
"	" 15th "	...	...	0
"	" 22nd "	...	...	2
"	" 29th "	...	...	0
"	" 5th September	...	...	3
"	" 12th "	...	...	3
"	" 19th "	...	...	1
"	" 26th "	...	...	0
"	" 3rd October	...	...	1
"	" 10th "	...	...	2
"	" 17th "	...	...	0
"	" 24th "	...	...	0
"	" 31st "	...	...	1
"	" 7th November	...	...	0
"	" 14th "	...	...	1
"	" 21st "	...	...	2
"	" 28th "	...	...	2
"	" 5th December	...	...	2
"	" 12th "	...	...	1
"	" 19th "	...	...	0
"	" 26th "	...	...	1
From the 26th to 31st	"	...	...	1

### MEASLES.

There have been 20 deaths from Measles as compared with 77 deaths last year. The mortality from the disease during the last 20 years has been as follows:—

1874	...	...	...	1
1875	...	...	...	56
1876	...	...	...	5
1877	...	...	...	12
1878	...	...	...	2
1879	...	...	...	22
1880	...	...	...	4
1881	...	...	...	0
1882	...	...	...	36
1883	...	...	...	11
1884	...	...	...	0
1885	...	...	...	22



1886	...	...	...	...	4
1887	...	...	...	...	16
1888	...	...	...	...	3
1889	...	...	...	...	44
1890	...	...	...	...	1
1891	...	...	...	...	22
1892	...	...	...	...	3
1893	...	...	...	...	77
1894	...	...	...	...	20

### SMALL POX.

Two cases of Small Pox were imported into the City during the spring of the year. The cases were those of male tramps admitted into the Fusehill Workhouse. They were promptly removed to the Fever Hospital.

### TYPHUS AND CONTINUED FEVER.

One case of Typhus Fever and two of Continued Fever were notified during the year. The case of Typhus was notified on the 30th March, and those of Continued Fever on the 9th January and 13th April. They were all removed to Crozier Lodge Fever Hospital.

### TYPHOID FEVER.

Fifteen cases of Typhoid Fever have been notified, as compared with twenty cases last year.

*Tabular Statement of Cases of Typhoid Fever during the year 1894, with the insanitary conditions present, and the action taken thereon.*

Date.	Locality.	Insanitary conditions present and action taken.	Result.
1894.			
May .....	Bousfield's Lane, Scotch Street.	Instructions given as to disinfection	One case. Recovered. No extension.
" .....	Union Court, Scotch Street	Instructions given as to disinfection	One Case. Recovered. No extension.
August ...	Hasell Street	Instructions given as to disinfection Offensive Privies at rear of house Notice served on owners	One Case. Recovered. No extension
" ...	Greystone Road	Instructions given as to disinfection	One case. Recovered. No extension.
" ...	Hartington Place	Imported from Edinburgh Instructions given as to disinfection	One case. Recovered. No extension.
" ...	Spencer Street	Imported from Allonby Water Closet defective Instructions given as to disinfection	One case. Recovered. No extension.
" ...	St. Alban's Row	House disinfected	One case. Died. No extension.



Date.	Locality.	Insanitary conditions present and action taken.	Result.
1894 August ...	Petteril Street	House disinfected	One case. Recovered. No extension.
October ...	Milbourne Street	House disinfected. Removed to Crozier Lodge. Drains at rear of house when tested found to be in a defective condition	One case. Recovered. Further case in house in November.
November	The Crescent	Probably imported from London Drains at rear of house when tested found to be in a defective condition	One case. Recovered. No extension.
"	Milbourne Street	Removed to Crozier Lodge. House disinfected. Drains at rear of house when tested found to be in a defective condition	One case. Recovered. No further extension.
"	Orchard Street	Removed to Crozier Lodge. House disinfected	One case. Recovered.
"	Greystone Road	Instructions given as to disinfection	No extension. One case. Recovered.
"	Spencer Street	Instructions given as to disinfection Drains of house in a defective condition	No extension. One case. Recovered.
December	Wilfred Street	Removed to Crozier Lodge Instructions given as to disinfection	No extension. One case. Recovered. No extension.

### DIPHTHERIA.

29 cases of Diphtheria in 26 houses have occurred as compared with 70 cases and 52 houses last year. The mortality has been about 1 in 7 of the reported cases. In three of the houses minor sanitary defects were found to exist.

*Tabular Statement of Cases of Diphtheria during the year 1894 with the insanitary conditions present and the action taken thereon.*

Date.	Locality.	Insanitary conditions present and action taken.	Result.
January...	Robert Street.....	House disinfected. Water closets stopped up on account of frost	One case. Died. No extension.
"	English Street ...	Instructions given as to disinfection	One case. Recovered.
"	Oswald Street ...	Instructions given as to disinfection	No extension. One case. Recovered.
February..	Orchard Street ...	House disinfected	No extension. One case. Recovered.
"	Granville Road ...	Removed to Crozier Lodge. House disinfected	No extension. One case. Died.
"	Myddleton Street	Instructions given as to disinfection	No extension. One case. Recovered. No extension.

Date.	Locality.	Insanitary conditions present and action taken.	Result.
April .....	East Norfolk Street	Instructions given as to disinfection	One case. Recovered. No extension.
"	Myddleton Street	Instructions given as to disinfection House disinfected	One case. Recovered. No extension.
May .....	Myddleton Street	House Disinfected. Offensive water closet in house	Two cases. One died. No extension.
July .....	Greystone Road...	Removed to Crozier Lodge. Imported from Langholm. Instructions given as to disinfection	One case. Recovered. No extension.
August ..	Aglionby Street	Removed to Crozier Lodge. Instructions given as to disinfection	Two cases. Recovered. No extension.
"	Portland Place ...	Removed to Crozier Lodge. House Disinfected. Drains at rear of house defective	One case. Recovered. No extension.
"	Elm Street.....	Disinfectants supplied. Water closet at rear of house defective	One case. Recovered. No extension.
September	Cumberland Infirmary	Removed to Crozier Lodge	Two cases. Recovered. No extension.
"	Charles Street ...	Instructions given as to disinfection	One case. Recovered. No extension.
"	Sewell's Lane, Rickergate..	House disinfected	One case. Died. No extension.
"	East Street.....	Disinfectants supplied. Removed to Crozier Lodge	One case. Recovered. No extension.
October ...	Henry Street.....	Removed to Crozier Lodge. House disinfected	One case. Recovered. No extension.
"	East Norfolk Street	Instructions given as to disinfection	One case. Recovered. No extension.
"	Rigg Street .. ...	Disinfectants supplied	One case. Recovered. No extension.
"	Brunton Place ...	Instructions given as to disinfection	One case. Recovered. No extension.
November	Orchard Street ..	Imported from Etterby. Removed to Crozier Lodge. Rooms disinfected	One case. Died. Reported as having died from Scarlet Fever. No extension.
"	Chiswick Street...	Instructions given as to disinfection	One case. Recovered. No extension.
"	Flower Street.....	Removed to Crozier Lodge. House disinfected	One case. Recovered. No extension.
December	Muncaster Place...	Instructions given as to disinfection	One case. Recovered. No extension.
"	Denton Street ...	Removed to Crozier Lodge. Instructions given as to disinfection	One case.

## EPIDEMIC INFLUENZA.

Influenza prevailed during the first quarter of the year, and again during the third quarter in a sporadic form. The severity of the disease now appears to be much diminished.

## NOTIFICATION OF INFECTIOUS DISEASES.

246 cases of infectious disease have been notified, as compared with 439 cases during the year 1893. The following table gives the number of cases reported during each quarter of the year :—

*Table shewing the number of Notifications to the Sanitary Authority during the year of each disease specified in the Act.*

Nature of Infectious Disease.	Number of Notifications sent in during				TOTAL.
	First Quarter.	Second Quarter.	Third Quarter.	Fourth Quarter.	
Cholera ... ..	0	0	0	0	0
Small Pox ... ..	0	2	0	0	2
Diphtheria ... ..	7	4	10	9	30
Membranous Croup ...	0	0	0	0	0
Erysipelas ... ..	29	24	17	40	110
Scarlet Fever & Scarlatina	29	17	17	14	77
Typhoid & Enteric Fever	0	2	4	9	15
Typhus Fever ... ..	0	1	0	0	1
Relapsing Fever ... ..	0	0	0	0	0
Continued Fever ... ..	2	1	0	0	3
Puerperal Fever ... ..	2	1	0	0	3
Diarrhœa (compulsory notification from Aug. 14 to Oct. 31) ...	0	0	5	0	5
Totals ... ..	69	52	53	72	246

In one instance two notifications of Diphtheria were sent in relating to the same case.

In two instances two notifications of Erysipelas were sent in relating to the same case.

The case of Typhus Fever was first reported as one of Continued Fever.

### ISOLATION OF INFECTIOUS CASES.

The Sanitary Authority has isolated at Crozier Lodge 21 cases of Infectious Diseases during the year, consisting of 8 of Scarlet Fever, 4 of Typhoid Fever, 1 of Typhus Fever, 1 of Continued Fever, and 7 of Diphtheria. Last year 43 infectious cases were isolated, viz. :—21 of Scarlet Fever, 13 of Diphtheria, 2 of Typhoid Fever, 1 of Typhus Fever, 5 of Small Pox, and 1 of Erysipelas.

### HOUSE REFUSE DISPOSAL.

Practically the remaining ashpits, numbering about 550, have been abolished during the year. Mr. Hill, the Inspector of Nuisances, informs me that the financial saving to the City through the present system of removing the ashes and house refuse is £275 per annum.

### FACTORY AND WORKSHOPS ACT, 1891.

The Factory and Workshops Act, 1891, has thrown a great increase of work upon the Sanitary Staff. The inspection of the workshops, including some 500 rooms, has not been completed, but we hope to embrace the details of the inspection in a tabulated statement at an early date.

### COMMON LODGING HOUSES.

The Common Lodging Houses in the City have been regularly inspected by the Inspector, and they are in a satisfactory condition.

### EXAMINATION OF MEAT.

During the year I have been called to examine the carcasses of 26 animals, as compared with 33 last year;  $21\frac{1}{2}$  of the carcasses were pronounced by me to be unfit for human food. 20 of the carcasses were affected with tuberculosis.



## PROSECUTIONS.

Four prosecutions were instituted during the year for the exposure for sale of bad meat and fish, and in each instance the defendants were heavily fined. The bad fish exposed for sale for which legal proceedings were taken were those of two salmon affected with salmon fungus (*saprolegnia ferax*). The defence was based upon a statement in the 21st Annual Report of the Inspectors of Salmon Fisheries (Mr. Walpole and Professor Huxley), in which it is stated "that the salmon disease appears to be a purely cutaneous affection, and the fish appear to die partly from irritation and consequent exhaustion, and partly, *perhaps*, from the drain on their resources caused by the production of so large a mass of vegetable matter at their expense. The flesh of diseased salmon, however extensive the morbid affection may be, presents no difference in texture or colour from that of a healthy fish, and those who have made the experiment declare that the *flavour* of a diseased fish is as good as a healthy one." It will be noticed that the question of the wholesomeness of salmon suffering from this particular fungus is carefully avoided, but the fact of the disease being capable of producing the death of salmon (and often in large numbers) is *prima facie* evidence that salmon so affected are frequently unfit for human food. Both the salmon condemned were in an advanced stage of the disease (one having lost its head), and the fact of there being numerous discharging surfaces (sores) on various parts of their bodies would indicate that the poisonous substance had been absorbed into the blood of the fish.

I am, Gentlemen,

Your obedient Servant,

WILLIAM BROWN,

*Medical Officer of Health.*

CARLISLE,

*January 18th, 1895.*

TABLE I.  
BIRTHS, 1894.

QUARTER ENDING.	ST. MARY.			ST. CUTHBERT.			TOTAL FOR CITY.
	Males.	Females.	Total.	Males.	Females.	Total.	
March 31 .....	78	105	183	62	83	145	328
June 30 .....	102	98	200	72	63	135	335
September 30	92	93	185	80	75	155	340
December 31..	104	69	173	64	75	139	312
Totals .....	376	365	741	278	296	574	1315

TABLE II.  
DEATHS, 1894.

QUARTER ENDING.	ST. MARY.					ST. CUTHBERT.					TOTAL FOR CITY.
	Males.		Females.		Total.	Males.		Females.		Total.	
	Under 5 years	5 and above	Under 5 years	5 and above		Under 5 years	5 and above	Under 5 years	5 and above		
March 31	23	35	19	31	108	12	46	14	35	107	215
June 30	14	30	18	35	97	21	16	5	32	74	171
Sept. 30	13	33	8	36	90	14	19	16	24	73	163
Dec. 31	26	41	17	47	131	16	37	20	27	100	231
TOTALS	76	139	62	149	426	63	118	55	118	354	780

TABLE III.

Table shewing the Annual Birth-rate, Rate of Mortality, Death-rates among Children, Deaths in Public Institutions, and Deaths from Seven Principal Zymotic Diseases, for the Year 1894, and Ten Years preceding.

Year.	Births.		Deaths.		Deaths of Children under one year.			Deaths of Children under 5 years.		Deaths in Public Institutions	Deaths from 7 Principal Zymotic Diseases	
	No. Registered.	Rate per 1000 of Population.	No. Registered	Rate per 1000 of Population.	No. Registered.	Per centage of Total Deaths.	Per centage of Registered Births.	No. Registered.	Per centage of Total Deaths.		No. Registered.	Rate per 1000 of Population.
1894	1315	32.4	780	19.2	174	22.3%	13.2%	256	32.8%	132	44	1.1
1893	1339	34.5	868	21.6	248	28.5%	17.8%	416	47.9%	117	145	3.6
1892	1213	30.5	805	20.2	150	18.6%	12.3%	235	29.2%	124	55	1.3
1891	1207	30.8	789	20.1	166	21.0%	13.7%	245	31.0%	114	63	1.6
1890	1215	30.0	792	19.5	183	23.1%	15.0%	275	34.7%	85	65	1.6
1889	1224	30.6	723	18.1	174	24.1%	14.2%	270	37.5%	105	69	1.7
1888	1307	33.5	722	18.5	169	23.4%	12.9%	253	35.0%	95	59	1.5
1887	1214	31.3	772	19.9	172	22.3%	14.1%	262	33.9%	118	75	1.9
1886	1262	33.0	745	19.4	184	24.7%	14.6%	271	36.3%	92	62	1.6
1885	1285	34.0	769	20.3	211	27.4%	16.4%	322	41.8%	81	66	1.7
1884	1303	35.0	783	21.0	206	26.3%	15.8%	307	39.2%	99	38	1.0
Average of 10 years 1884-1893	1262	32.3	777	19.8	186	23.9%	14.7%	285	36.6%	103	69	1.7



TABLE IV.

Shewing the Number of Deaths at all ages in 1894, from certain groups of Diseases, and proportions to 1,000 of Population, and to 1,000 Deaths from all causes ; also the Number of Deaths of Infants under one year of age from other groups of Diseases, and proportions to 1,000 Births and to 1,000 Deaths from all causes under one year.

Division I. (All ages).	Total Deaths.	Deaths per 1000 of Population, at all ages.	Deaths per 1000 of Total Deaths at all ages.
1. Principal Zymotic Diseases...	44	1.1	56.4
2. Pulmonary Diseases... ..	137	3.4	175.6
3. Principal Tubercular Diseases	68	1.7	87.2
Division II. (Infants under one year.)	Total Deaths.	Deaths per 1000 of Births.	Deaths per 1000 of Total Deaths under one year.
4. Wasting Diseases ... ..	67	50.9	261.7
5. Convulsive Diseases... ..	26	19.7	101.5

1. Includes Smallpox, Measles, Scarlet Fever, Diphtheria, Whooping Cough, Typhus, Enteric (or Typhoid), and Simple Continued Fevers, and Diarrhœa.
3. Includes Phthisis, Scrofula, Tuberculosis, Rickets, and Tabes.
4. Includes Marasmus, Atrophy, Debility, Want of Breast Milk, and Premature Birth.
5. Includes Hydrocephalus, Infantile Meningitis, Convulsions, and Teething.

TABLE V.

Table shewing the Number of Deaths from the principal Zymotic Diseases in the 10 Years 1884 to 1893 and in the Year 1894.

DISEASE.	1884	1885	1886	1887	1888	1889	1890	1891	1892	1893	Annual Average of 10 Years 1884—1893	Annual Average Proportion of Deaths to 1000 Deaths in 10 years, 1884—1893.	Total Deaths in 1894.	Proportion of Deaths to 1000 Deaths in 1894.
Smallpox .....	...	...	...	...	2	...	...	...	...	1	.3	.4	..	...
Measles... ..	...	22	4	16	3	44	1	22	3	77	19.2	24.7	20	25.7
Scarlet Fever .....	2	2	7	1	...	...	22	21	4	11	7.0	9.0	2	2.6
Diphtheria .....	2	...	3	3	...	5	6	2	14	11	4.6	5.9	4	5.1
Whooping Cough.....	4	31	19	22	32	8	12	7	23	20	17.8	22.9	12	15.3
Typhus Enteric Simple continued	...	...	...	2	1	...	...	...	4	..	.7	.9	...	...
	7	1	6	17	8	1	2	2	3	5	5.2	6.7	2	2.6
	...	..	...	...	...	..	..	...	...	...	...	...	...	...
Diarrhoea .....	23	10	23	14	13	11	22	9	4	20	14.9	19.2	4	5.1
Totals .....	38	66	62	75	59	69	65	63	55	145	69.7	89.7	44	56.4
Rate per 1000 per annum of population	1.0	1.7	1.6	1.9	1.5	1.7	1.6	1.6	1.3	3.6	1.7	...	1.1	...

TABLE VI.—Table of Deaths during the year 1894 in the Urban Sanitary District of Carlisle, classified according to Diseases, Ages, and Localities.

Names of Localities adopted for the purpose of these Statistics ; public institutions being shown as separate localities.	Mortality from all Causes at subjoined Ages.							Mortality from subjoined Causes, distinguishing Deaths of Children under Five Years of Age.																			TOTAL.						
	At all Ages.	Under 1 Year.	1 and under 5.	5 and under 15.	15 and under 25.	25 and under 65.	65 and upwards.	Smallpox.	Scarlatina.	Diphtheria.	Fever.					Typhus.	Enteric or Typhoid.	Continued.	Relapsing.	Puerperal.	Cholera.	Erysipelas.	Measles.	Whooping Cough.	Diarrhoea and Dysentery.	Rheumatic Fever.		Ague.	Phthisis.	Bronchitis, Pneumonia, & Pleurisy.	Heart Disease.	Injuries.	All Other Diseases.
											Membranous Croup.	Typhoid.	Continued.	Relapsing.	Puerperal.																		
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30				
St. Mary Sub-Dist.	359	93	36	17	15	107	91	Under 5 5 upwds.	..	..	2	..	..	..	..	..	..	..	..	9	6	2	..	1	..	31	..	2	77	129			
Cumberland Infirmary	(S. Mary)	60	4	5	11	32	5	Under 5 5 upwds.	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	31	37	5	122	230				
Fever Hospital	do.	3	..	..	..	1	..	Under 5 5 upwds.	..	1	1	..	..	..	..	..	..	..	..	..	..	..	1	..	..	..	6	8	36	7			
Home for Incurables	do.	4	..	..	..	2	2	Under 5 5 upwds.	..	..	..	..	..	1	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	..	1		
St. Cuthbert S.-Dist.	289	77	39	7	16	84	66	Under 5 5 upwds.	..	..	1	..	..	..	5 upwds.	..	..	..	..	11	6	2	..	..	..	29	2	2	61	116			
Fusichill Workhouse	(S. Cuthbert)	64	1	..	..	32	30	Under 5 5 upwds.	..	..	..	..	..	..	5 upwds.	..	..	..	..	..	..	2	19	30	..	39	3	80	173				
H.M. Prison	do.	1	..	..	..	1	..	Under 5 5 upwds.	..	..	..	..	..	..	5 upwds.	..	..	..	..	..	..	..	..	6	5	14	1	36	62				
TOTALS.....	780	174	82	29	42	259	194	Under 5 5 upwds.	..	1	4	..	..	2	..	..	..	..	20	12	4	..	4	..	2	60	98	17	277	256			
									1	1	..	..	..	..																	524		

The subjoined numbers have also to be taken into account in judging of the above records of mortality.

Deaths occurring outside the district among persons belonging thereto.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...</
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TABLE VII.

Mortality from Diarrhœa and Typhoid Fever, 1874—1894.

Year.	DEATHS FROM DIARRHŒA.															Deaths from Typhoid Fever.
	Autumn Quarter.		January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total for Year.	
	No. Registered.	Rate per-1000 of population														
1874	35	4.3	2	2	..	..	1	1	6	20	9	6	..	3	50	23
1875	27	3.27	2	..	4	1	2	4	5	12	10	2	..	2	44	24
1876	12	1.43	3	1	3	3	1	..	2	5	5	1	6	7	37	10
1877	10	1.18	2	1	2	1	2	2	2	6	2	1	3	4	28	5
1878	26	3.02	1	2	1	1	3	3	9	8	9	1	1	1	40	11
1879	4	.46	2	1	1	1	..	2	2	2	..	..	1	..	12	11
1880	31	3.51	..	..	5	..	..	..	3	7	21	5	1	..	42	15
1881	7	.78	..	2	..	2	..	2	2	2	3	3	..	2	18	7
1882	17	1.84	..	1	..	..	..	1	5	7	5	1	..	..	20	9
1883	8	.87	..	2	..	..	..	..	..	3	5	6	1	..	17	8
1884	14	1.50	2	..	..	1	1	1	7	3	4	3	1	..	23	7
1885	4	.42	1	1	1	..	..	1	2	2	..	..	1	1	10	1
1886	8	.83	1	2	..	..	..	2	1	1	6	7	1	2	23	6
1887	7	.72	1	..	1	2	..	2	..	5	2	1	..	..	14	17
1888	8	.82	1	..	1	1	..	..	..	3	5	1	..	1	13	8
1889	6	.60	2	1	..	..	..	..	..	5	1	1	..	1	11	1
1890	15	1.58	..	..	2	..	1	..	1	7	8	2	1	1	22	2
1891	5	.51	1	..	..	..	..	1	1	2	2	1	..	..	9	2
1892	2	.20	1	..	..	..	..	..	..	..	2	1	2	..	4	3
1893	9	.89	..	2	2	2	..	2	..	2	7	1	..	..	20	5
1894	1	.10	..	..	..	..	..	..	..	..	1	1	2	..	4	2
Average for 20 years 1874—1894	12.2	1.37	1.0	.8	1.1	.7	.5	1.1	2.3	5.0	5.1	2.1	1.0	1.1	21.9	8.4

TABLE VIII.  
CARLISLE URBAN SANITARY AUTHORITY.  
*Deaths Registered from all Causes during the year 1894.*

CAUSE OF DEATH.	AGES.												Totals.	55 to 60
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards			
CLASSES.														
I. SPECIFIC FEBRILE, OR ZYMOTIC DISEASES	18	25	1	1	1	1	...	...	...	...	...	47	...	
II. PARASITIC DISEASES	...	...	...	...	...	...	...	...	...	...	...	...	...	
III. DIETIC DISEASES	1	...	...	...	1	...	...	...	...	...	...	2	...	
IV. CONSTITUTIONAL DISEASES	13	5	9	20	18	28	15	21	11	2	...	142	...	
V. DEVELOPMENTAL DISEASES	32	...	...	...	...	...	...	3	9	27	10	81	...	
VI. LOCAL DISEASES	60	41	18	18	21	29	34	66	76	44	5	412	...	
VII. DEATHS FROM VIOLENCE	4	5	...	2	6	4	2	2	1	...	..	26	...	
VIII. DEATHS FROM ILL-DEFINED AND NOT SPECIFIED CAUSES	46	6	1	1	4	1	1	1	7	2	...	70	...	
TOTALS	174	82	29	42	51	63	52	93	104	75	15	780	...	
I.—SPECIFIC FEBRILE, OR ZYMOTIC DISEASES.														
I.— <i>Miasmatic Diseases.</i>														
Smallpox { Vaccinated	...	...	...	...	...	...	...	...	...	...	...	...	...	
Unvaccinated	...	...	...	...	...	...	...	...	...	...	...	...	...	
No statement	...	...	...	...	...	...	...	...	...	...	...	...	...	
Measles	6	14	...	...	...	...	...	...	...	...	...	20	...	
Scarlet Fever	...	1	1	...	...	...	...	...	...	...	...	2	...	
Typhus	...	...	...	...	...	...	...	...	...	...	...	...	...	
Whooping Cough	...	...	...	...	...	...	...	...	...	...	...	...	...	
Diphtheria	7	5	...	...	...	...	...	...	...	...	...	12	...	
Simple, Continued, and Ill-defined Fever	...	4	...	...	...	...	...	...	...	...	...	4	...	
Enteric or Typhoid Fever	...	...	...	...	1	1	...	...	...	...	...	2	...	





TABLE VIII—continued.

## CARLISLE URBAN SANITARY AUTHORITY.

*Deaths registered from all Causes during the year 1894.*

CAUSE OF DEATH.	AGES.											Totals.	55 to 60
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards		
IV.—CONSTITUTIONAL DISEASES—continued.													
Rheumatism ... ..	...	...	...	2	...	...	...	1	...	...	...	3	...
Gout ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
Rickets ... ..	...	...	...	...	...	5	12	13	9	2	...	43	...
Cancer, Malignant Disease	...	...	...	...	2	...	...	...	...	...	...	...	...
Tabes Mesenterica ... ..	1	...	1	...	...	...	...	...	...	...	...	2	...
Tubercular Meningitis, Hydrocephalus	9	4	4	13	14	19	3	2	1	...	...	17	...
Phthisis ... ..	1	1	...	2	...	2	...	2	...	...	...	58	...
Other Forms of Tuberculosis, Scrofula	2	...	...	...	...	...	...	...	...	...	...	8	...
Purpura, Hamorrhagic Diathesis	...	...	...	...	2	2	...	...	1	...	...	...	...
Anæmia, Chlorosis, Leucocythæmia	...	...	...	...	...	...	...	...	...	...	...	5	...
Glycosuria, Diabetes Mellitus ...	...	...	...	...	...	...	...	1	...	...	...	1	...
Other Constitutional Diseases ..	...	...	...	...	...	...	...	1	...	...	...	1	...
V.—DEVELOPMENTAL DISEASES.													
Premature Birth ... ..	26	...	...	...	...	...	...	...	...	...	...	26	...
Atelectasis ... ..	1	...	...	...	...	...	...	...	...	...	...	1	...
Congenital Malformations	5	...	...	...	...	...	...	...	...	...	...	5	...
Old Age ... ..	...	...	...	...	...	...	...	3	9	27	10	49	...
VI.—LOCAL DISEASES.													
1.—Diseases of Nervous System.													
Inflammation of Brain or Membranes...	2	4	5	2	2	2	...	...	...	...	...	17	...
Apoplexy, Softening of Brain, Hemiplegia, Brain Paralysis ... ..	...	...	...	...	1	1	5	13	17	4	...	41	...





TABLE VIII—continued.

## CARLISLE URBAN SANITARY DISTRICT.

Deaths registered from all Causes during the year 1894.

CAUSE OF DEATH	AGES											TOTALS	55 to 60
	0 to 1	1 to 5	5 to 15	15 to 25	25 to 35	35 to 45	45 to 55	55 to 65	65 to 75	75 to 85	85 and upwards		
VI.—LOCAL DISEASES—continued.													
Ascites ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
Cirrhosis of Liver ..	...	...	...	...	1	1	...	...	2	...	...	4	...
Jaundice and other Diseases of Liver	...	...	...	...	...	2	1	...	...	...	...	3	...
Other Diseases of Digestive System	1	...	...	...	...	...	...	...	2	...	1	4	...
6.—Diseases of Lymphatic System. (e.g., of Lymphatics and of Spleen)													
Hodgkin's Disease ... ..	1	...	1	...	...	1	...	...	...	...	...	3	...
7.—Diseases of Gland-like Organs of Uncertain Use.													
(e.g., Bronchocele, Addison's Disease) Goitre	...	...	...	1	...	...	...	...	1	...	...	2	...
8.—Diseases of Urinary System.													
Nephritis ... ..	...	1	...	1	1	...	2	...	...	...	...	4	...
Bright's Disease, Albuminuria ...	...	...	...	1	2	3	4	3	2	...	...	15	...
Disease of Bladder or of Prostate	...	...	...	...	...	1	...	...	...	1	...	2	...
Other Diseases of the Urinary System	...	...	...	...	...	2	...	...	...	...	...	2	...
9.—Diseases of Reproductive System.													
A. Of Organs of Generation.													
Male Organs ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
Female Organs ..	...	...	...	1	...	1	...	...	...	...	...	2	...
B. Of Parturition.													
Abortion, Miscarriage ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...
Puerperal Convulsions ... ..	...	...	...	...	...	...	...	...	...	...	...	...	...





## SUMMARY OF TABLE VIII.

						No. of Deaths.
<b>I.—Specific Febrile, or Zymotic Diseases—</b>						
1.	Miasmatic Diseases	...	...	...	...	40
2.	Diarrhœal	„	...	...	...	4
3.	Malarial	„	...	...	...	...
4.	Zoogenous	„	...	...	...	...
5.	Venereal	„	...	...	...	2
6.	Septic	„	...	...	...	1
<b>II.—Parasitic Diseases</b>						...
<b>III.—Dietic Diseases</b>						2
<b>IV.—Constitutional Diseases</b>						142
<b>V.—Developmental Diseases</b>						81
<b>VI.—Local Diseases—</b>						
1.	Diseases of Nervous System	...	...	...	...	86
2.	Diseases of Organs of Special Sense	...	...	...	...	1
3.	Diseases of Circulatory System	...	...	...	...	107
4.	Diseases of Respiratory System	...	...	...	...	137
5.	Diseases of Digestive System	...	...	...	...	38
6.	Diseases of Lymphatic System	...	...	...	...	3
7.	Diseases of Gland-like Organs of Uncertain Use	...	...	...	...	2
8.	Diseases of Urinary System	...	...	...	...	23
9.	Diseases of Reproductive System	...	...	...	...	...
	(a). Diseases of Organs of Generation	...	...	...	...	2
	(b). Diseases of Parturition	..	...	...	...	4
10.	Diseases of Bones and Joints	...	...	...	...	7
11.	Diseases of Integumentary System	...	...	...	...	2
<b>VII.—Violence—</b>						
1.	Accident or Negligence	...	...	...	...	24
2.	Homicide	...	...	...	...	...
3.	Suicide	...	...	...	...	2
4.	Execution	..	...	...	...	...
<b>VIII.—Ill-defined and not Specified Causes</b>						70
Total						780

TABLE IX.  
LOCALITIES OF DEATHS FROM PRINCIPAL ZYMOTIC  
DISEASES.

LOCALITY.	Smallpox	Measles	Scarlet Fever	Diphtheria	Whooping Cough	Typhus Fever	Typhoid Fever	Diarrhoea
<i>St. Mary Sub-District—</i>								
Back Duke Street ...	...	1	...	...	...	...	...	...
Castle, The ...	...	...	...	...	1	...	...	...
Church Street (Cummings' Lane)...	...	...	1	...	...	...	...	...
Corporation Road ...	...	...	...	...	1	...	...	...
Denton Street ...	...	1	...	...	...	...	...	...
Fever Hospital ...	...	...	*1	†1	...	...	*1	...
Finkle Street ...	...	...	...	...	1	...	...	...
Garfield Street ...	...	1	...	...	...	...	...	...
John Street ...	...	...	...	...	1	...	...	...
Leatham Street ...	...	...	...	...	1	...	...	...
Lime Street ...	...	2	...	...	...	...	...	...
Lorne Street ...	...	1	...	...	...	...	...	...
Milbourne Street ...	...	1	...	...	...	...	...	...
Myddleton Street ...	...	...	...	1	...	...	...	...
Port Road ...	...	...	...	...	1	...	...	...
Rigg Street ...	...	...	...	...	...	...	...	1
Scotch Street (Sewell's Court) ...	...	1	...	1	...	...	...	1
Scott Street ...	...	...	...	...	...	...	...	1
Saint Alban's Row ...	...	...	...	...	...	...	1	...
Thomas Street ...	...	1	...	...	...	...	...	...
<i>St. Cuthbert Sub-District—</i>								
Botchergate ...	...	2	...	...	1	...	...	...
Brook Street ...	...	...	...	...	1	...	...	...
Charles Street...	...	2	...	...	...	...	...	...
Close Street ...	...	2	...	...	...	...	...	...
East Street ...	...	...	...	...	1	...	...	...
King's Arms Lane ...	...	1	...	...	...	...	...	...
Lamplugh Street ...	...	...	...	...	...	...	...	1
Lord Street ...	...	...	...	...	1	...	...	...
Princess Street ...	...	1	...	...	...	...	...	...
Robert Street ...	...	...	...	1	...	...	...	...
South Street ...	...	1	...	...	1	...	...	1
Union Street ...	...	1	...	...	1	...	...	...
William Street ...	...	1	...	...	...	...	...	...
Total ...	...	20	2	4	12	...	2	4

\* Removed from Stanwix District. † Previous Residence not given.